

INFORMATION DISCLOSURE CITATION

PTO-1449

ATTORNEY'S DKT NO.
032367-451APPLICATION NO.
09/456,429APPLICANT
Yu Hua Ji, et al.FILING DATE
December 8, 1999GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>ME</i>	3,845,770	11/5/74	Theeuwes, et al.			
<i>ME</i>	4,326,525	4/27/82	Swanson, et al.			
<i>ME</i>	4,771,057	9/13/88	Knaus, et al.			
<i>ME</i>	4,902,514	2/20/90	Barclay, et al.			
<i>ME</i>	4,992,445	2/12/91	Lawter, et al.			
<i>ME</i>	5,001,139	3/19/91	Lawter, et al.			
<i>ME</i>	5,011,472	4/30/91	Aebischer, et al.			
<i>ME</i>	5,023,252	6/11/91	Hseih			
<i>ME</i>	5,463,564	10/31/95	Agrafiotis, et al.			
<i>ME</i>	5,571,827	11/5/96	Barberich, et al.			
<i>ME</i>	5,616,345	4/1/97	Geoghegan, et al.			
<i>ME</i>	5,686,495	11/11/97	Goldwin, et al.			
<i>ME</i>	5,846,839	12/8/98	Gallop, et al.			
<i>ME</i>	5,891,643	4/6/99	Fesik, et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
<i>ME</i>	2,240,325	6/11/98	Canada				
<i>ME</i>	WO 92/05802	4/16/92	PCT WIPO				
<i>ME</i>	WO 93/06121	4/1/93	PCT WIPO				
<i>ME</i>	WO 97/21445	1/19/97	PCT WIPO				
<i>ME</i>	WO 98/00439	1/8/98	PCT WIPO				
<i>ME</i>	WO 98/34948	8/13/98	PCT WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>ME</i>	Alker, D., et al. "Formation, Synthetic Utility and Strucutre Elucidation of a 2-Bromomethyl 1,4-Dihydropyridine." <i>Tetrahedron Letts.</i> 31: 1479-1482 (1990)
<i>ME</i>	Arrowsmith, et al. "Long-Acting Dihydropyridine Calcium Antagonists. 1. 2-Alkoxyethyl Derivatives Incorporating Basic Substituents." <i>J. Med Chem.</i> 29: 1696-1702 (1986).

ME 9/6/01

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<i>dm</i>	Balboni, B., et al. "Calcium Antagonists: Vinylogues and bivalent ligands related to nifedipine." <i>Pharmazie</i> . 43: 318 (1988).
<i>dm</i>	Bezprozvanny, I., et al. "Voltage-Dependent Blockade of Diverse Types of Voltage-Gated Ca^{2+} Channels Expressed in <i>Xenopus</i> Oocytes by the Ca^{2+} Channel Antagonist Mibefradil (Ro 40-5967)." <i>Molec. Pharmacol.</i> 48: 540-549 (1995).
<i>dm</i>	Bossert, et al. "4-Aruldihydropyridines, a New Class of Highly Active Calcium Antagonists." <i>Angew. Chem. Int. Ed.</i> 20: 762-769 (1997).
<i>dm</i>	Brittain, et al. "Relaxation of K^+ Contracted Rabbit Aortic Strips Implies Calcium Channel Blockade." <i>Physiologist</i> , 28: 325 (1985).
<i>dm</i>	Brenner, et al. "Encoded combinatorial chemistry." <i>Proc. Natl. Acad. Sci., USA</i> , 89: 5181 (1992).
<i>dm</i>	Cremers, et al. "Effects of the Novel T-Type Calcium Channel Antagonist Mibefradil on Human Myocardial Contractility in Comparison with Nifedipine and Verapamil." <i>J. Cardiovasc. Pharmacol.</i> 29: 692-696 (1997).
<i>dm</i>	Cross, PE., et al. "Selective Class III Antiarrhythmic Agents. 1. Bis(arylalkyl)amines." <i>J. Med. Chem.</i> 33(4): 1151 (1989).
<i>dm</i>	Denyer, et al. "HTS Approaches to Voltage-Gated Ion Channel Drug Discovery." <i>Drug Discovery today</i> . 3(7): 323-332 (1998)
<i>dm</i>	Eltze, et al. "Stereoselective Inhibition of Thromboxane-Induced Coronary Vasoconstriction by 1,4-Dihydropyridine Calcium Channel Antagonists." <i>Chirality</i> , 2: 233-240 (1990).
<i>dm</i>	Gordeev, et al. "A General and Efficient Solid Phase Synthesis of Qynazoline-2,4-diones." <i>Tetrahedron Lett.</i> 38(10): 1729-1732 (1997)
<i>dm</i>	Gordeev, et al. "Approaches to Combinatorial synthesis of Heterocycles: A Solid Phase Synthesis of 1,4-Dihydropyridines." <i>J. Org. Chem.</i> 61: 924-928 (1996)
<i>dm</i>	Hess, et al. "Different modes of Ca channel gating behaviour favoured by dihydropyridine Ca agonists and antagonists." <i>Nature</i> 311: 538-544 (1984).
<i>dm</i>	Hockerman, et al. "Molecular Determinants of Drug Binding and Action on L-Type Calcium Channels." <i>Annu. Rev. Pharmacol. Toxicol.</i> 37: 361-96 (1997).
<i>dm</i>	Joslyn, et al. "Dimeric 1,4-Dihydropyridines as Calcium Channel Antagonists." <i>J. Med. Chem.</i> 31: 1489-1492 (1988).
<i>dm</i>	Kenny, et al. "The Application of High-throughput Screening to Novel Lead Discovery." <i>Progress in Drug Research</i> . Edited by Ernst Jucker. Herhauser Verlag: Basel, 1998, Vol. 1, 246-269.
<i>dm</i>	Kokubun, et al., "Studies on Ca Channels in Intact Cardiac Cells: Voltage-Dependent Effects and Cooperative Interactions of Dihydropyridine Enantiomers.." <i>Molec. Pharmacol.</i> 30: 571-584 (1986).
<i>dm</i>	Liang, R., et al. "Parallel synthesis and screening of a solid phase carbohydrate library." <i>Science</i> , 274: 1520 (1996).
<i>dm</i>	Osterrieder, W., et al. "In Vitro Pharmacologic Profile of Ro 40-5967, a Novel Ca^{2+} Channel Blocker with Potent Vasodilator but Weak Inotropic Action." <i>Cardiovasc. Pharmacol.</i> 13: 754-9 (1989).
<i>dm</i>	PD-029361. Current drug report.
<i>dm</i>	Portoghese, P.S. "The Role of Concepts in Structure-Activity Relationship Studies of Opioid Ligands." <i>J. Med. Chem.</i> 35(11): 1927-1937 (1992).
<i>dm</i>	Rampe, D., et al., "New synthetic ligands for L-type voltage-gated calcium channels." <i>Prog. Drug. Res.</i> 40: 191-238 (1993).

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<i>Ap</i>	Rovnyak, G.C., et al. "Dihydropyrimidine Calcium Channel Blockers. 4. Basic 3-Substituted-4-aryl-1,4-dihydropyrimidine-5-carboxylic Acid Ester. Potent Antihypertensive Agents." <i>J. Med. Chem.</i> 35: 3254-3263 (1992).
<i>m</i>	Shuker, S.B., et al. "Discovering High-Affinity Ligands for Proteins, SAR by NMR." <i>Science</i> . 274: 1531-1534 (1996)
<i>ny</i>	Tokuma, Y., et al. "Stereoselective pharmacokinetics of dihydropyridine calcium antagonists." <i>J. Chromatography A.</i> , 694: 181-193 (1995).
<i>An</i>	Yuen, P., et al. "Synthesis and SAR of substituted 1,2,3,4-tetrahydroisoquinolines as N type Calcium channel blockers." <i>Bioorg and Med. Chem. Lett.</i> 8: 2415 (1998).
<i>m</i>	Zeng, et al. "Automated Analytical/Preparative High Performance Liquid Chromatography-Mass Spectrometry System for the Rapid Characterization and Purification of Compound Libraries." <i>J. Chrom. A.</i> 794:3-13 (1998).
EXAMINER	DATE CONSIDERED 5/6/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.